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ENVIRONMENTAL PROTECTION AGENCY Office of Enforcement

MEDIUM CONCENTRATION 5024 SAMPLES CHAIN OF CUSTODY RECORD

REGION 5
230 South Dearborn Stre
Chicago, Illinois 50604

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ENVIRONMENTAL PROTECTION AGENCY Office of Enforcement

MEDIUM CONCENTRATION SOIL SAMPLE

230 South Dearborn Stree Chicago, Illinois 60604

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ecology and environment, inc.

223 WEST JACKSON BLVD., CHICAGO, ILLINOIS 60606, TEL. 312-663-9415

International Specialists in the Environmental Sciences

Date Received for Review: 10/13/83 Date Review Completed: 10/11/83

TO: RON ST. JOHN

From: Cynthia Bachunas

Subject: SAUGET LANDFILL (SAMPLES COLLECTED 4/13/03 NO 7/14/03)
ROS- 8302-05

Sample Description: CASE# 1887 SAS# 661E - MEDIUM
Soils = 2 DIOXIN

Project Data Status: STILL AWATTING ORGANICS

FIT Data Review Findings:

NO ADDITIONAL COMMENTS - SEE ATTACHED CRL REVIEW

Additional Comments:

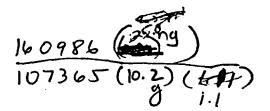
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

	REGION V	
DATE:	10/4/83	RECEIVED OCT-1 3 1983
SUBJECT: Rev Rec	view of Region V - CLP Dioxin Data ceived for Review on 10/3/83	
	ntis Ross, Director Chuck & My //	
TO: Dat	ta User: FIT	
aga	e data for the following case has been reviewed and ainst contractual specifications:	, , , , ,
Sit	te Name: Sanget Landfill SMO Case # Si	A S 661 E (CASE#188
Dat	ta Set #: <u>SF3176</u> # sample	s <u>14</u>
Sam	mple type	
DU:	: Y905 Activity # C47303	
CRL	L#S 83MS07S54 TO 83MS07S6	<u> </u>
SM0	O Traffic #s 66/E01 To 66/E14	<u> </u>
Con	ntract Lab Sevent ific Application's Inc. R	eview Hrs. 1.0
	ta Quality Summary Comments:	Cuehl
8	83MS07Sb1 3.3 pp TODD Verfiel. Come	urocy = 18%)
×	Data are acceptable for use.	
()) Data are acceptable for use with qualification no	ted above.
()) Data are preliminary, reruns or additional inform requested.	ation have been
()) Data are unacceptable.	•

REVIEW CHECKLIST

CASE #	66/E REVIEWER M. Kuehl
CONTRACTOR	Science Applications DATE 10/4/83
•	10C RESULTST 83M S07354 - S66
VEC 110	•
YES NO	Blank < 1.0 ppb? Detection limits < 1.0 pph? Exceptions:
	37c1 TCDD Surrogate Recovery 50-150%? Exceptions:
_	
	D.A.J. 220 -3.7
12/	Ratio 332 all samples = 0.67 - 0.87? Exceptions:
M	Matrix spike of lppb native 2,3,7,8 - TCDD recovery 50-150%? Actual Recovery 96:1.
M	Duplicate RPD < 40%? Sample/dup results: 20.21, 0.07
M	C ¹³ 2,3,7,8 TCDD response for all samples at masses 332, 334 greater than 5:1 signal to noise? Exceptions:
	Any samples reported > 25 ppb? If so, was calibration extended or 1.0g soil taken?
TOT	RRF native < 10% RSD?

SAMPLE SUMMARY:				
Positive Samples #	Conc (ng/g)	Calculations Verified?	Criteria <u>Met?</u>	Exceptions
661E-08 (83MSU7S61)	3.31	Ole		
(83MSU7S61)		•		
CONFIRMED SAMPLE # _	661E1-08	-h		
	M12	194/196 le	<i>ا</i>	•
		(1.33	3)	



SF 3176

WHV-1 84-146

Received

September 29, 1983

USEPA - Region V 536 South Clark Street Tenth Floor CRL Chicago, Illinois 60605

ATTN: Mr. Curtis Ross

Dear Mr. Ross:

Enclosed you will find a copy of the data report for each of three sets of samples received by SAI for TCPD analysis in conjunction with SMO/SAS Case 661E. The sample matrix at this site proved to be particularly heavily ladden with interfering organics, making generation of high quality data difficult. However, with the exception of six samples (all from set 2 of Case 661E) we were able to obtain analytical data which meets or exceeds the rigorous QA/QC requirements of the TCDD SAS program. Additionally, six samples required reextraction/reanalysis, and the majority required use of the most extensive cleanup techniques available.

Please don't hesitate to call me at (619) 456-6468 if you have any questions or comments concerning these data reports.

Regards,

WILLIAM H. VICK, Ph.D.

Senior Scientist

WHV: dm

Enclosure

Obligate On the Denium Windmille Lan Angolan Oak Bidan San Dinan San Francisca Tiresan

SF3176

2,3,7,8-TCDD DATA REPORT
SMO/SAS CASE 661E

Submitted by:
Science Applications, Inc.
9/29/83

SF3176 Pocument Control No.1 661E1-5-002 SHO/SAS Came No.1 661E 60 m SP2340 PSCC (0,24 mm 10) OC Column 60 m SP2340 PSCC (0,24 mm 10)	257 320 322 3284 312 314 Comments 390 100 180 188350 13423 179536 1 1 250 170 170 17554 53610 72998 1 1 160 135 270 29347 22622 32297 1 1 150 175 29347 22622 32297 1 1 150 2572 4174 29429 23411 30578 2 2 19207 64593 100 10757 8689 11386 1 1 150 220 120 105 100 10757 8689 11386 1 1 150 120 120 115 64342 12423 61999 1,2 260 120 120 115 62749 53231 68099 1,2 260 120 1441 62749 53231 68099 1,2 260 120 1441 62749 53231 68099 1,2 260 120 1441 62749 3323 162152 1 260 120 1441 62749 53231 68099 1,2 260 120 1441 62749 53231 68099 1,2 260 120 1441 62749 53231 68099 1,2 260 120 1441 62749 53231 68099 1,2 260 140 78442 7895 7895 82856 3 260 175 780 36150 7797 7578
TCDD DATA REPORT	SQM+C7 SSY 661E-018" J A,0 9/23/8 243 10.6 NO 0.03 0.75 108

(D) = Duplicate (Intralab)
(H) = Native TCDO Spike
(R) = Reextraction/Analysis

J = Jar Extraction MD = Not Detected

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	Document Control No. 1 661E1-5-002	9199	SP2340 FSCC (0,24 mm 1D)			3284	1587900	67200					 			-		A.B.C.D . Cleaning this lim to Combinat lim, of this time
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			58/62/6	Applications, Inc.	Sc lence	95	Sample Number		661E-10 661E-11								to be	to.L Detection limit; reported in the ton by subtracting 0.009 three for native TCD contribution by subtracting u.us . Field Blank
			Pates		<u> </u>			1_				 						

661E1-5-002 SMO Case: 661E Page 3 of **5**

COMMENTS

RECEIVED OCT 1 3 1983

- 1) Ion values for m/e 257,320 and 322 given as peak heights, and DL calculation performed on peak height basis.
- 2) DL calculation on area basis using m/e 320,322,332 and 334. 320/322 ratio and 257 response inadequate for native TCDD confirmation.
- 3) Reextraction/analysis required because of unacceptable m/e 332/334 ratio.
- 4) Reextraction/analysis required because of unacceptable m/e 332 and 334 signal:noise ratio.



ecology and environment, inc.

223 WEST JACKSON BLVD., CHICAGO, ILLINOIS 60606, TEL. 312-663-9415

International Specialists in the Environmental Sciences

Date Received for Review: 10/3/83 Date Review Completed: 10/14/83

To: Ron St. John

From: Cynthia Bachunas

Subject: SAUGET LANDFILL

RO5 - 8302 - 05 (SAMPLES COLLECTED 7/14/83 mew 7/20/83)

Sample Description: CASE # 1887, SAS# 661E - MEDIUM

SOILS FOR DIOXIN

Project Data Status: STILL AUGITING ORGANICS

FIT Data Review Findings:

NO ADDITIONAL COMMENTS - SEE ATTACHED CEL REVIEWS

Additional Comments:

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION V

DATE: 10/4/83	RECEIVED OCT 1 3 1983
SUBJECT: Review of Region V - CLP Dioxin Data Received for Review on 10/3/83	
	Ellyfor
TO: Data User: FIT	•
The data for the following case has be against contractual specifications:	
Site Name: Sauget L.F.	SMO Case # SAS661 E (CASE# 18
Data Set #: SF 3191	
Sample type Soil	12/28/23
DU: 7905 Activity #	C47303
CRL#s <u>83MS07S86</u> to	83MS 08 S ##
SMO Traffic #s 66/E 15	to 611 E 30
Contract Lab Scientific Application	en's Inc. Review Hrs. 0.5
Re Data Quality Summary Comments:	eviewer: <u>M. Kuese</u>
Samples 83MS07592, 83 8BMS08501, 8BMJ08502 CO	MSO7594, F3M807595, ull not be cleaned up
SUBSIDENTLY TO GUELD TEDD COULD not be recovered. No samples.	results, interal standard data is available for the
all other samples & showed positive respons	1.0 ppb, 83 MS07889 2 06 0.11 ppb 2,3,7,8- TLOD
() Data are acceptable for use.	•
Data are acceptable for use with	qualification noted above.
() Data are preliminary, reruns or a requested.	additional information have been
() Data are unacceptable.	

REVIEW CHECKLIST

CASE #	661E REVIEWER Kuch
CONTRACTOR	Science Applications DATE 10/4/83
	<u>JOC RESULTS</u> Semple 83M507586-599 83M508501,502
YES NO	Blank < 1.0 ppb? Detection limits < 1.0 pph? Exceptions: 6616-89, 661E-21
ПА	60-1401.
	Samples noted above
ПЧ	Ratio 332 all samples = $0.67 - 0.87$? Exceptions:
ПA	Matrix spike of lppb native 2,3,7,8 - TCDD recovery 50-150%? Actual Recovery 48%
M	Duplicate RPD < 40%? Sample/dup results: ND/MD due to
ПА	C^{13} 2,3,7,8 TCDD response for all samples at masses 332, 334 greater than 5:1 signal to noise? Exceptions: $661E^{-}21$
	661E-23, $661E-24$, $661E-29$, $661E-30Any samples reported \geq 25 ppb? If so, was calibration extended or 1.0g soil taken?$
IVI	RRF native < 10% RSD?

2,3,7,8-TCDD DATA REPORT
SMO/SAS CASE 661E

Submitted by:
Science Applications, Inc.
9/29/83

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TCDD DATA REPORT

Document Cantrol Mo.; 661E2-5-002	SHO/SAS Case No.1 661E	CC Column: 60 m SP2340 FSCC (0,24 mm 10)
linte: 9/29/83		lubi Science Applications, Inc.

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in.i. - Defection Hait; reported in PPB based on a 10.0 gram sample.

FB - Fleid Blank NB - Methyl Blank

A, B, C, P . Chemmy that ben th' Combiner fon ob that bruss

J - Jar Extraction Nh - Not Detected

(D) = Duplicate (Intralub)
(N) = Native TCDD Spike
(R) = Reextraction/Analysis

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	1	=	•	<u> </u>	``)		•

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TCDO DATA REPORT

661E2-5-002 SMO Case: 661E Page 3 of 4

COMMENTS

RECEIVED OCT 1 3 1983

- 1) Ion values for m/e 257,320 and 322 given as peak heights, and DL calculation performed on peak height basis.
- 2) DL calculation based on m/e 320 and 322 signal (area). Native TCDD presence not confirmed because of 320/322 ratio and/or signal: noise criteria not met.
- 3) DL calculation based on peak height of m/e 320 and 332 only.
- 4) Reextraction/analysis required because of unacceptable m/e 332 and 334 signal: noise ratio.
- 5) No value could be obtained because of unacceptable internal standard (m/e 332 and 334) signal: noise ratio. Poor recoveries indicate a significant matrix interference persists even after extensive extract cleanup.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY **REGION V** SUBJECT: Review of Region V - CLP Dioxin Data Received for Review on |0|3|33 huck Elly for FROM: Curtis Ross, Director Central Regional Laboratory TO: Data User: The data for the following case has been reviewed and the quality judged against contractual specifications: SMO Case # 661E Site Name: samples Data Set #: Sample type 501 Activity # C47303 DU: 1905 CRL#S 83MS08503-S10, RO SMO Traffic #s 661E-31,32,33,34,35,36,37,38 Applications Contract Lab Science Review Hrs. Reviewer: Data Quality Summary Comments: No 2,3,7,8-TODD detected. Data are acceptable for use. () Data are acceptable for use with qualification noted above. Data are preliminary, reruns or additional information have been requested.

() Data are unacceptable.

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REVIEW CHECKLIST

CASE #	661E REVIEWER M. Wuchl
CONTRACTOR	Science Applications Date 10/3/83
	<u>JOC RESULTSI</u> Samples 83M108SOS-S
res no	Blank < 1.0 ppb? Detection limits < 1.0 ppb? Exceptions:
WI	37 _{C1} TCDD Surrogate Recovery 50-150%? Exceptions:
<u> </u>	Ratio 332 all samples = 0.67 - 0.87? Exceptions:
	Matrix spike of 1ppb native 2,3,7,8 - TCDD recovery 50-150%? Actual Recovery 39%
M	Duplicate RPD $\leq 40\%$? Sample/dup results: ν_D/ν_D
INI	C ¹³ 2,3,7,8 TCDD response for all samples at masses 332, 334 greater than 5:1 signal to noise? Exceptions:
	Any samples reported > 25 ppb? If so, was calibration extended or 1.0g soil taken?
VI	RRF native < 10% RSD?

SAMPLE SUMMARY:	Conc (ng/g)	Calculations Verified?	Criteria Met?	Exceptions
None				
	· /		***************************************	
			-	
		·		
CONFIRMED SAMPLE #			-	

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2,3,7,8-TCDD DATA REPORT
SMO/SAS CASE 661E

Submitted by:
Science Applications, Inc.
9/29/83

TCUU DATA NEPORT

SMO/SAS Case No. ! __

3199

DUCUMENT CHIEFUL No. 1 661E3-5-002

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Minto: 9/29/83

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							2 ion area.	the e/e 32	09 £ 5man 6	ing 0.00	ubtract	ibut ion b	0 contr	tive TO	for na	rected	alon area corrected for native TCDO contribution by subtracting 0.009 times the m/s 322 ion are	
	_		:	:	<u> </u>						10.0 *****	and on	77	ported		200	10.i Ducuction Lair: reported in PPh based on a	
w	1758	7110	12431		_		i	1.22		i	!	10.7	939	9/1/83	>		6616-38	
_	36292	27971	36150	780	140	186	102	0.77	: !	0.39	8	:	905	9/1/83	A,D		3	
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_	92146	74086	86790	280	170	310	95	0.80	:	0.12	8	10.8	8 1802	8/11/8	>	ري د	661E-398/88	3450 8510
-	39711	29962	41552	155	150	290	107	0.75	i	0.13	8	10.7	3 234	9/24/8	٥.	C WAS	661E-38(R)884J	314.0 8 509
_	7006	6092	6004	201	140	155	82	0.87	:	0.88	3	10.8	156	9/24/8	٠,٥	28 2	6616-37 8/78	24 208 SOB
	131886	28652	107480	220	300	.350	88	0.67	:	0.10	8	10.9	1728	8/31/8	>	2	661E-36@17A	LOSSONS
	166159	124838	157141	27745	22573	9078	97	0.75	0.81	:	0.37	10.5	8 319·	9/24/8	٥,	<u>۔</u>	661E-35(H)	34127: 506
_	340564	271460	316056	38	675	1000	9	0.80	:	0.06	3	10.9	1014	9/1/83	>	<u>کر</u> د کر کر د	66HE-34 BLACK	ST SCAROL
1,2	309556	253372	303448	6184	1100	2540	8	0.82	:	0.24	₹	10.3	1606	8/31/8	>	<u>ئر</u> د	661E-33 B/64	505 8.75 ME
_	332259	254884	324848	773	581	5250	8	0.77	:	0.09	8	10.9	8 117	9/24/88	٠,	<u>خ</u> د	661E-328/58	3 M 50 S 50 4
1,2	258742	209396	280425	16710	300	650	109	0.81	:	0.07	8	10.4	3 1648	8/31/88	>	<u>د</u> د	661E-31 <i>8/5/</i> 4	SMS08 503
Chammers to	, J	ZEC	328°	222	320	253	(Percent)	332/334	320/322	+	(PPB)	(neeal)	Time	Date			Hember	
	: 			ton Arus			Surrogace				2. 3. 7. % -	He c	Amiytical	Aus (anup ion	action hod	S S S	
	10)	SP2340 PSOX (0,24 [0]	F2340 FSO	60 a Si		GC Culumnt								ine.	at Long	App 1 10	Labi Science Applications, inc.	

661_5-002 SMO Case:661E Page 2 of 3

COMMENTS

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- 1) Ion values for m/e 257,320 and 322 given as peak height, and DL calculation performed on peak height basis.
- 2) DL calculation based on m/e 320 and 332 only.
- 3) Reextraction/analysis required because of unacceptable m/e 332 and 334 signal: noise ratio and 332/334 ratio.

SPECIAL ANALYTICAL SERVICES REVIEW DOCUMENT

	A.	Client Region V	
•	В.	Laboratory(s) Schence Applications	
	C.	SAS Number Region III Protocol 661E	•
	D.	Specific Request: Organics 2,3,7,8-TZDD	Task Code(s)
		Inorganics ·	
		Other	
•.	E.	Analytical Methodologies: Organics Reporting	Protocol Code(s)
		Inorganics Other	
	F.	Methods Source Deg IVII	_
	G.	Reviewer Name M. Wilh	
	н.	Reviewer Function or Title CRU Q CCOOrdinator	

The purpose of this inquiry is to gain information and recommendations from the SAS Program Principals directly, in order to improve the methodology(ies), QA/QC requirements, or reporting formats for future similar Special Analytical Services. Therefore, please respond in a timely fashion to all questions and requests.

SPECIAL ANALYTICAL SERVICES CLIENT REVIEW INQUIRY

Please return this inquiry document to SMO after review of the data package for this Special Analytical Service.

A. General Methodologies

l.	Did the referenced methodology(ies) or protocol provide technically useful information for this specific SAS request? If not, please explain.
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	matrices even after aption Deleanus
2.	Describe any changes in methodology or other technical improvements that you recommend in order to more adequately perform this specific SAS task. puhaps a Hams option for tough Sample makies?
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B. QC Requirements

	yes
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er - Herry de Crister	
2.	Describe any changes in the QC requirements that you recommend in order to more
2.	Describe any changes in the QC requirements that you recommend in order to more adequately perform this specific SAS task.
2.	Describe any changes in the QC requirements that you recommend in order to more adequately perform this specific SAS task.
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C. Data Sheets and Report Format

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2.	What changes in report or deliverable format do you recommend?
	none- Very good report, lary
	to find in for mation
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7 2	
	D. Other Comments
Ent	D. Other Comments er here any comments or recommendations for items not covered above.
Ent	
Ent	er here any comments or recommendations for items not covered above.
Ent	er here any comments or recommendations for items not covered above.

Mr. Michael O'Toole On Scene Coordinator US EPA Region V 5HRTUB 230 S. Dearborn Chicago, Illinois 60604

Dear Michael:

Attached are the pictures which you reqested back on January 14th regarding the uncovering of waste drums during installation of the railroad spur at our Sauget, Illinois facility.

The explanation of the pictures are as follows:

- 1. A view to the north showing the railroad spur which we were installing and which runs parallel with the Monsanto Hazardous landfill.
- 2. Also looking north along the railroad spur.
- A view looking south overlooking the area where the drums were located and as a result our project stopped.
- 4&5. The same scene but taken at different times of the day. A drum is noted in the foreground, however, this is not the drum that caused us any problem.
- 6. Another view looking north in the vicinity of pictures #4 and #5 showing drum remnants.
- 7. A view looking west over the area containing drums.

 Note the two dark spots in the center of the picture which were some unidentified material which had seeped to the surface once we had removed our coke piles.
- 8. A close up of one of the spots depicted in picture #7.

Please let me know if you have any questions of a more specific nature regarding the photographs attached.

Sincerely,

Core Smith

Director Product Safety and Regulatory Affairs

Attachments cc: J. Allen 3764 CAS:lg 0019p